



**6<sup>th</sup> Annual CINT Users Workshop**  
**Albuquerque Marriott Hotel**  
**Albuquerque, NM**  
**January 9-10, 2008**  
**Agenda**

**Tuesday Evening, January 8, 2008**

**Sandia Room**

7-9 Registration & Reception

**Wednesday Morning, January 9, 2008**

**Sandia Room**

7:30 Continental Breakfast and Registration

8:15 Welcome – Toni Taylor, CINT Co-Director

8:25 CINT Overview and Status Report, Robert Hwang, CINT Co-Director

8:45 Overview of DOE Nanoscience NNI Programs, Altaf Carim, BES

9:15 Plenary Speaker, Professor Barbara Baird, Cornell University  
*Nanobiotechnology to Examine and Control Receptor-Mediated Cell Activation*

9:55 Break

10:20 Plenary Speaker, Professor Evelyn Hu, University of California, Santa Barbara  
*Integrating Nanotechnologies: New Building Blocks and Integration Strategies*

11:00 Introduction to Nanowires Symposium, Jennifer Hollingsworth, CINT

11:15 Introduction to Membranes Symposium, Bruce Bunker, CINT

11:30 Lunch

**Salon E Room**

**Wednesday Afternoon, January 9, 2008**

12:30 Symposia —Session 1

a. Nanowires

**Acoma Room**

***Wet chemical synthesis of inorganic nanowires***

Overview - William Buhro (Washington University, St. Louis)

New Developments - Reginald Penner (UC Irvine)

b. Membrane-Based Nanocomposites

**Sandia Room**

***Nanomaterials in Membrane Assemblies***

Overview - Robert Blankenship (Washington University, St. Louis)

User Talk – Jim Brozik (Washington State University)

2:15 Break

2:30 Symposia —Session 2

a. Nanowires

**Acoma Room**

***Synthesis of semiconductor nanowires by physical methods***

Overview - Yi Cui (Stanford University)

New Developments - Prof. Suneel Kodambaka (UCLA)

b. Membrane-Based Nanocomposites

*Sandia Room*

***Adaptive/Programmable Behavior in Membranes***

Overview - Jay Groves (LBNL)

User Talk – Darryl Sasaki (Sandia National Laboratories)

4:15 – 5:45 Poster Session (CINT scientists and users)

*Salon A-D*

4:15 – User Executive Meeting and feedback opportunity

*Acoma Room*

6:15 Buses Depart for Dinner

*Hotel Lobby*

6:45 Workshop Dinner

*The Anderson-Abruzzo Albuquerque International Balloon Museum*

9:15 Buses return to hotel

**Thursday, January 10, 2008**

7:30 Continental Breakfast

8:15 Symposia —Session 3

a. Nanowires

*Acoma Room*

***Properties and characterization of semiconductor nanowires***

Overview - Lincoln Lauhon (Northwestern University)

New Developments - Francois Leonard (Sandia Livermore)

b. Membrane-Based Nanocomposites

*Sandia Room*

***Membranes in 3D Composites***

Overview – Paul Cremer (Texas A&M)

User Talk – Gabriel Lopez (UNM)

10:00 Break

10:15 Symposia —Session 4

a. Nanowires

*Acoma Room*

***Assembly and integration of inorganic nanowires***

Overview - Ulrich Gösele (Max Planck Inst. of Microstructure Physics)

New Developments – Nate Qutoriano, (Hewlett-Packard Laboratories)

b. Membrane-Based Nanocomposites

*Sandia Room*

***Characterization of Membrane Composites***

Overview – Tonya Kuhl (University of California-Davis)

User Talk - David Bear (University of New Mexico)

12:00 Box Lunch – Informal discussions

*Acoma Room*

12:45 Buses depart for CINT Tour at Core (*optional*)

*Hotel Lobby*